Patent claims

method for producing a heterogeneous, 1. in particular multicolored, sheet-like structure (13), 5 for example a decorative skin for an interior trim part of a vehicle, in which at least a first cavity (5) and a second cavity (5') of a mold (1) are filled with at least a first and a second polymer material (12, 12') which are free-flowing and after removal form a one-piece sheet-like structure, a 10 sealing element (7) being arranged in the mold, at least during the filling of one cavity, and extends in relation along the parting plane to the neighboring cavity.

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- 2. The method as claimed in claim 1, characterized in that the sealing element (7) is firmly connected to one mold part (2), in particular the upper mold (3), and can be pressed against another mold part (2'), in particular the lower mold (4).
- 3. The method as claimed in claim 2, characterized in that the sealing element (7) is expandable under fluid pressure.

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- 4. The method as claimed in claim 2 or 3, characterized in that the sealing element (7) can be pressed against a protruding projection (11) of the other mold part (2'), in particular the lower mold (4).
- 5. The method as claimed in one of claims 2 to 4, characterized in that, after the filling of the first cavity (5), the sealing element (7) is lifted off the other mold part (2') and the second cavity (5') is subsequently filled, the first and second polymer materials (12, 12') bonding with each other in such a way that they fuse together.

6. The method as claimed in claim 1, characterized in that, before the filling of the cavities (5, 5'), the sealing element (7) is loosely placed into one mold part (2), in particular the upper mold (3), in the region of the parting plane (6), and, after the closing of the mold (1), is made to bear in a sealing manner against the other mold part (2'), in particular the lower mold (4).

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7. The method as claimed in claim 6, characterized in that the sealing element (7) can be pressed against a protruding projection (11) of the other mold part (2'), in particular the lower mold (4).

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- 8. The method as claimed in claim 6 or 7, characterized in that, during the filling of the cavities (5, 5'), the sealing element (7) bonds with the first polymer material (12) on the one hand and the second polymer material (12') on the other hand in such a way that they fuse together.
- 9. The method as claimed in one of the preceding claims, characterized in that the cavities are filled by means of an injection-molding process with reactively curing polymer materials (RIM technology).
- 10. A mold for carrying out the method as claimed in claim 1, with at least a first mold part (2) and a second mold part (2'), which can be displaced with respect to said first part, which mold parts form at least a first cavity (5) and a neighboring second cavity (5'), which can be filled with at least a first and a second free-flowing polymer material (12, 12'), after the closing of the mold, characterized in that a sealing element (7) is

arranged along the parting plane (6) between the first cavity (5) and the second cavity (5').

- 11. The mold as claimed in claim 10 for carrying out the method as claimed in claims 2 to 5, characterized in that the sealing element (7) is firmly arranged in one mold part (2), in particular the upper mold (3), and can be pressed against the other mold part (2'), in particular the lower mold (4), in an expandable manner under fluid pressure.
- 12. The mold as claimed in claim 10 for carrying and the method as claimed in claims 6 to 8, characterized in that the sealing element (7) can be loosely placed into one mold part (2), in particular the upper mold (3), and can be pressed against the other mold part (2'), in particular the lower mold (4).
- 20 13. A sheet-like structure, produced using the method as claimed in one of claims 2 to 5 and/or the mold as claimed in claim 11.
- 14. A sheet-like structure, produced using the method as claimed in one of claims 6 to 8 and/or the mold as claimed in claim 12.